

Mobile transparent window apparatus and method for photochemical vapor deposition

Patent Number: ☐ US4265932
Publication date: 1981-05-05
Inventor(s): PETERS JOHN W; GEBHART FRANK L
Applicant(s): HUGHES AIRCRAFT CO
Requested Patent: ☐ JP56035425
Application Number: US19790063213 19790802
Priority Number(s): US19790063213 19790802
IPC Classification: B05D3/06
EC Classification: C23C16/48D, C23C16/48P
Equivalents: IL60501, JP1334448C, JP60006540B

Abstract

The specification discloses a mobile transparent window apparatus and method for use in a photochemical vapor deposition system having a reaction chamber with a quartz window integral with the top surface thereof, which prevents undesirable deposits on the quartz window and thereby enhances the efficiency and rate of the deposition process. The apparatus comprises: (a) a film of a predetermined material that is drawn across the internal face of the quartz window within the reaction chamber, the predetermined material being characterized by being transparent to a selected wavelength of radiation, being stable at the elevated temperature required for the photochemical vapor deposition, and possessing sufficient mechanical strength to be moved across the quartz window; and (b) means for moving the film across the internal face of the quartz window.

Data supplied from the **esp@cenet** database - 12